



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/03/2018

Lab ID : CP-2018-03-13-04

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-03-2018

Sample ID No : 2018-03-13-04 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	10/03/2018	17/03/2018	150.23 X 150.44 X 150.35	22601	8.205	411.3	18.2	18.2
2	Drain Concrete	M20	10/03/2018	17/03/2018	149.63 X 151.34 X 150.74	22645	8.243	405.3	17.9	
3	Drain Concrete	M20	10/03/2018	17/03/2018	149.72 X 151.72 X 150.36	22716	8.175	420.2	18.5	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-03-13-04
Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address : Yelahanka Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-03-2018
Sample ID No : 2018-03-13-04 /04
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CI 5

Date of test : 07/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	10/03/2018	07/04/2018	149.32 X 151.44 X 150.32	22613	8.199	497.5	22.0	22.5
2	Drain Concrete	M20	10/03/2018	07/04/2018	149.87 X 150.48 X 150.62	22552	8.145	530.0	23.5	
3	Drain Concrete	M20	10/03/2018	07/04/2018	150.43 X 150.22 X 150.97	22598	8.139	499.4	22.1	

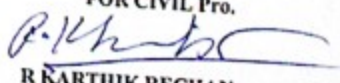
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-13-04 **Date:** 17/03/2018

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road, Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-03-2018

Sample ID No : 2018-03-13-04 /05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 17/03/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	10/03/2018	17/03/2018	149.85 X 149.85 X 151.22	22455	8.152	388.5	17.3	17.7
2	Drain Concrete	M20	10/03/2018	17/03/2018	150.35 X 150.49 X 150.32	22626	8.324	409.5	18.1	
3	Drain Concrete	M20	10/03/2018	17/03/2018	149.72 X 151.85 X 150.38	22735	8.208	402.4	17.7	

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 Quality Manager



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2018-03-13-04 **Date:** 07/04/2018
Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address : Yelahanka Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-03-2018
Sample ID No : 2018-03-13-04 /06
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 07/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	10/03/2018	07/04/2018	150.34 X 149.82 X 150.34	22524	8.149	515.8	22.9	23.2
2	Drain Concrete	M20	10/03/2018	07/04/2018	150.98 X 150.35 X 150.22	22700	8.073	524.4	23.1	
3	Drain Concrete	M20	10/03/2018	07/04/2018	149.65 X 150.49 X 150.45	22521	150.940	529.2	23.5	

Note:

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-03-08-14 Date: 12-03-2018
Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address : Yelahanka Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency : Sri.Sridhar Y.R No.987, O.M.S. Road, Yelahanka, Bangalore-64
Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-03-2018
Sample ID No : 2018-03-08-14 /01
Sample Type : ACC 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 09-03-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1 98	—
2	Fineness by Air permeability method ($m^2/kg.Min$)	278 6	225 m^2/kg , Min
3	Density (gm/cc)	3 15	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	178 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-08-14 Date: 10-03-2018

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 08-03-2018

Sample ID No : 2018-03-08-14 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 08-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	482	482	3.2	96.8	90-100
3	20 mm	5784	6266	41.8	58.2	30-70
4	10 mm	6198	12464	83.1	16.9	10-35
5	4.75 mm	2277	14741	98.3	1.7	0-5
6	Pan	259	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-08-14 Date: 10-03-2018
Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address : Yelahanka Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-03-2018
Sample ID No : 2018-03-08-14 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 08-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	242	242	4.8	95.2	90-100
3	10 mm	2185	2427	48.5	51.5	25-55
4	4.75 mm	2388	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-03-08-14 Date: 10-03-2018

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-2018

Sample ID No : 2018-03-08-14 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 08-03-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	72	72	7.2	92.8	90-100	90-100	90-100	95-100
3	2.36 mm	132	204	20.4	79.6	60-95	75-100	85-100	95-100
4	1.18 mm	218	422	42.2	57.8	30-70	55-90	75-100	90-100
5	600 micron	162	584	58.4	41.6	15-34	35-59	60-79	80-100
6	300 micron	149	733	73.3	26.7	5-20	8-30	12-40	15-50
7	150 micron	188	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2018-03-08-14 Date: 10-03-2018
Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address : Yelahanka Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-03-2018
Sample ID No : 2018-03-08-14 /04
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 09-03-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.392	522	632	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	548	655	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	565	672	19.0%	Satisfactory	Satisfactory

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-03-08-14 Date: 13-03-2018
Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address : Yelahanka Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-03-2018
Sample ID No : 2018-03-08-14 /06
Sample Type /Size : Precast Cover Slab
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 09/03/2018

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.18	100.41	1.488	4438	88.9	20.0	18.6	23.3
2	Cover Slab-2	75.43	100.38	1.402	4468	87.6	19.6	18.2	22.8
3	Cover Slab-3	75.44	100.37	1.424	4469	85.7	19.2	17.8	22.3

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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/03/2018

Lab ID : CP-2018-03-13-04
Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address : Yelahanka Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency : Sri Sridhar.Y.R No:987, O.M.S. Road, Yelahanka, Bangalore-64
Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-03-2018
Sample ID No : 2018-03-13-04 /01
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 17/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	10/03/2018	17/03/2018	150.47 X 151.22 X 149.43	22754	8.165	391.4	17.2	17.2
2	Drain Concrete	M20	10/03/2018	17/03/2018	150.22 X 150.45 X 150.33	22601	8.198	391.0	17.3	
3	Drain Concrete	M20	10/03/2018	17/03/2018	150.67 X 151.43 X 151.97	22816	8.155	387.9	17.0	

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-13-04
 Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
 Address : Yelahanka Sub division, BBMP, Bangalore.
 Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
 Agency : Sri Sridhar.Y.R No:987, O.M.S. Road, Yelahanka, Bangalore-64
 Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 13-03-2018
 Sample ID No : 2018-03-13-04 /02
 Customer ID : Drain Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 28 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
 Date of test : 07/04/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	10/03/2018	07/04/2018	149.32 X 151.44 X 150.32	22613	8.199	522.4	23.1	23.4
2	Drain Concrete	M20	10/03/2018	07/04/2018	149.87 X 150.48 X 150.62	22552	8.145	534.5	23.7	
3	Drain Concrete	M20	10/03/2018	07/04/2018	150.43 X 150.22 X 150.97	22598	8.139	531.0	23.5	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R. Karthik Rechan
 Authorized Signatory
 Quality Manager



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 ****End of Report****

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